

Appelbaum/Dul 10/18/95

EXPRESSION OF TNF-LIKE PROTEIN

HGS clone 413412 = HTPAN08

Objectives:

- Express as fusion protein in E. coli—to be used for raising antibodies
- Express in soluble form in E. coli or other systems—to be used for receptor binding and activity assays

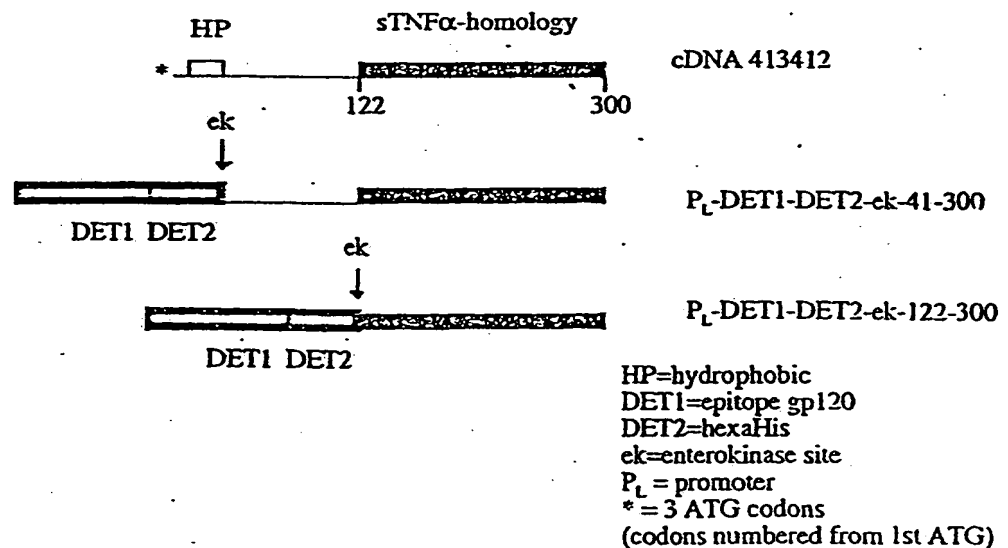
Accomplishments:

- Plasmid DNA from HGS strain (purified by K. B. Tan) was sequenced.

The DNA sequence in the open reading frame agreed with that reported by HGS.

There was a 1 bp difference upstream of the first of 3 closely spaced in-frame ATG codons, which makes it more likely that the first ATG is the translation initiator codon (TTCATGG in HGS sequence is ATCATGG in SB sequence; the latter is in good agreement with Kozak consensus upstream sequence)

- Two fusion constructs were made for E. coli expression; both expressed well as insoluble proteins; both have the potential for release of untagged protein following enterokinase digestion. Protein purification/rabbit injection is planned.



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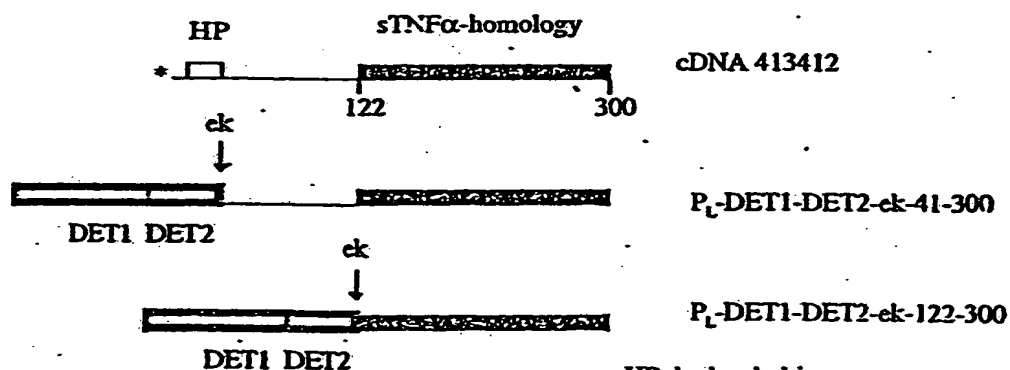
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HP=hydrophobic
DET1=epitope gp120
DET2=hexaHis
ck=enterokinase site
P_L=promoter
*= 3 ATG codons
(codons numbered from 1st ATG)

Ruben EXHIBIT 2031
Ruben v. Wiley et al.
Interference No. 105,077
RX 2031

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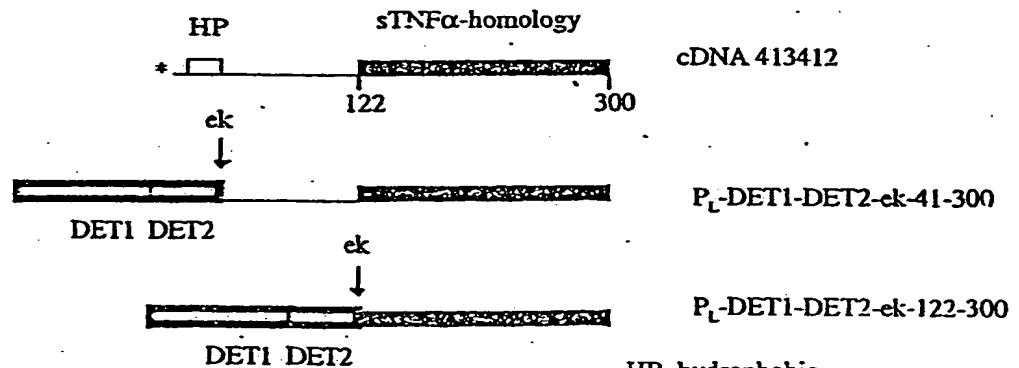
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FA1

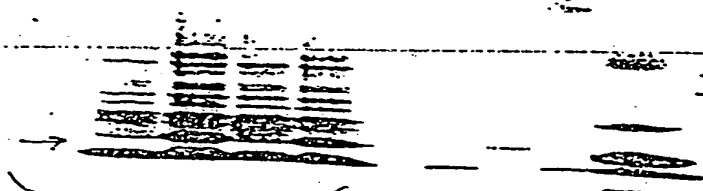
Expression of clone 413412 fusions
in E. coli

Vol

STRATAGENE EAGLEEYE II 10/16/95 14:59:23

IMAGE SIZE (640 x 480 x 8).
REAL-TIME ACQUIRE
IMAGE CREATED ON MON OCT 16 14:59:21 1995.

S1 S2
0 4 0 4



whole cell lysate
on coomassie-stained gel

soluble and insoluble
fractions of cell lysate
on coomassie stained gel

whole cell lysate
on coomassie-stained SDS-PAGE

STRATAGENE EAGLEEYE II 10/16/95 14:53:22

IMAGE SIZE (640 x 480 x 8).
REAL-TIME ACQUIRE
IMAGE CREATED ON MON OCT 16 14:53:19 1995.

Whole cells

PEA DET1
DET2
TNF-LIKE
(112-300)

PEA DET1
DET2
TNF-LIKE
(11-300)

